

Listing of Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1 through 19. (Cancelled)

20. (Original) A coverslip for a microscope slide wherein a portion of said coverslip is concave thereby enclosing a known volume when placed onto a microscope slide.

21. (Original) The coverslip of claim 20 further comprising reagents dried thereon.

22. (Original) A combination of the coverslip of claim 20, a microscope slide and an insert sandwiched between a portion of said coverslip and said microscope slide.

23. (Original) The combination of claim 22 wherein said insert comprises a control sample.

24. (Original) The coverslip of claim 20 wherein said coverslip is labeled with a barcode or text.

25. (Original) A method of performing an assay on a biological sample on a microscope slide, comprising:

- a) placing a biological sample on a microscope slide;
- b) placing the coverslip of claim 20 on said microscope slide;
- c) allowing water, buffer or reagent to flow into the known volume between said microscope slide and said coverslip; and
- d) allowing a reaction to occur.

26. (Original) The method of claim 25 wherein said coverslip comprises a reagent predried onto it.

27. (Withdrawn) A method of performing an assay on a biological sample on a microscope slide, comprising:

- a) placing a biological sample on a microscope slide;

b) placing said microscope slide of step (a) into a reaction chamber for processing;

c) placing a coverslip into said reaction chamber; and

d) allowing a reaction to occur.

28. (Withdrawn) The method of claim 27 wherein said coverslip comprises a reagent dried on it prior to placing said coverslip into said reaction chamber.

29. (Withdrawn) The method of claim 27 wherein said coverslip comprises a control sample placed onto it prior to allowing said reaction to occur.

30. (Withdrawn) The method of claim 27 wherein said coverslip comprises a barcode or text.

31. (Withdrawn) A multireaction chamber machine comprising one or more inlets and one or more outlets into each reaction chamber of said machine.

32. (Withdrawn) The multireaction chamber machine of claim 31 in combination with a heating block.

33. (Withdrawn) The multireaction chamber machine of claim 31 in combination with a pump wherein tubing connects said pump to said inlet.

34. (Withdrawn) The multireaction chamber machine of claim 33 in combination with a central processing unit which controls said pump.

35. (Withdrawn) The multireaction chamber machine of claim 31 in combination with means to vary volume of space in one or more reaction chambers of said machine.

36. (Withdrawn) The multireaction chamber machine of claim 35 wherein said means comprises a central processing unit.

37 through 42. (Cancelled)